

Fig. 1

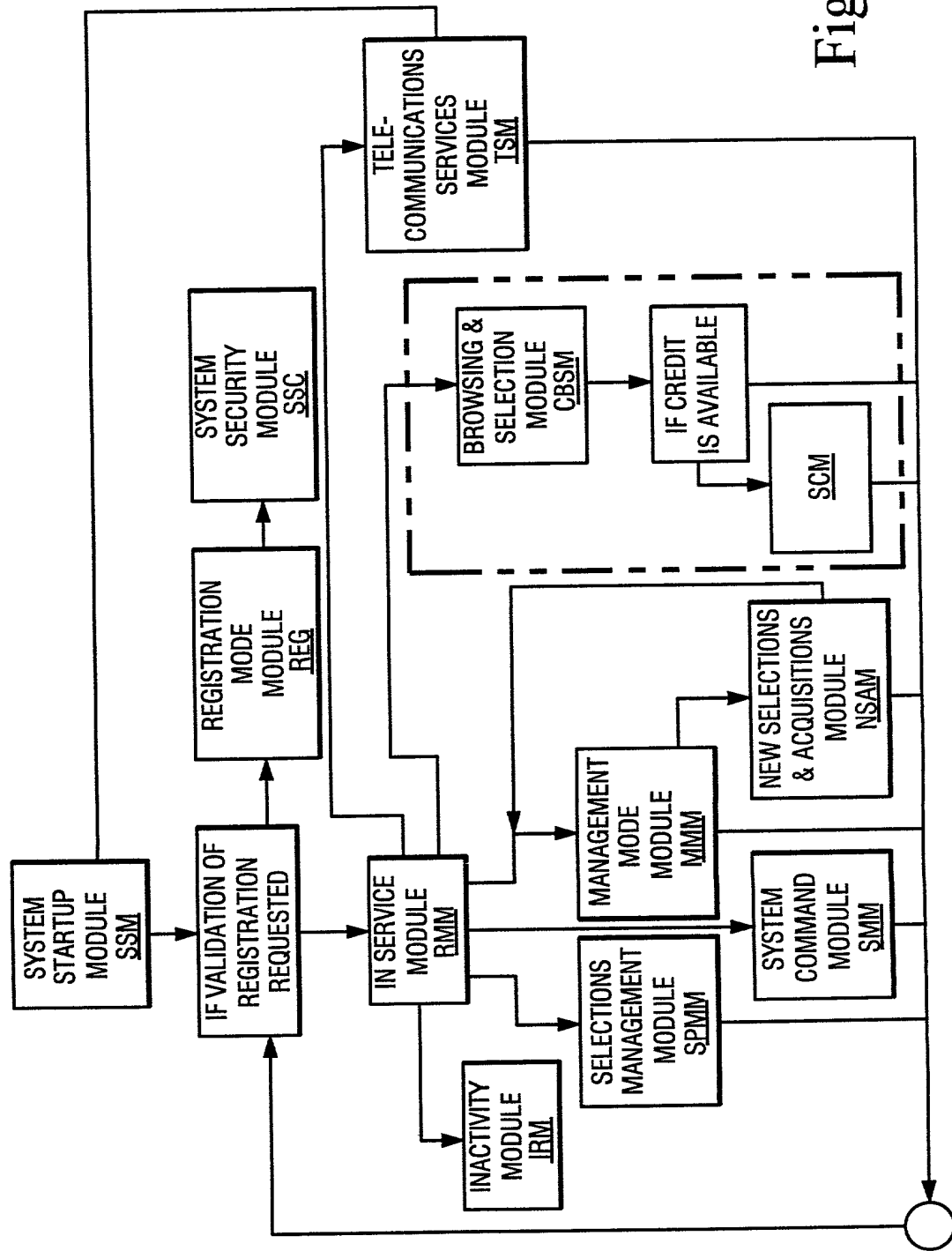


Fig. 2

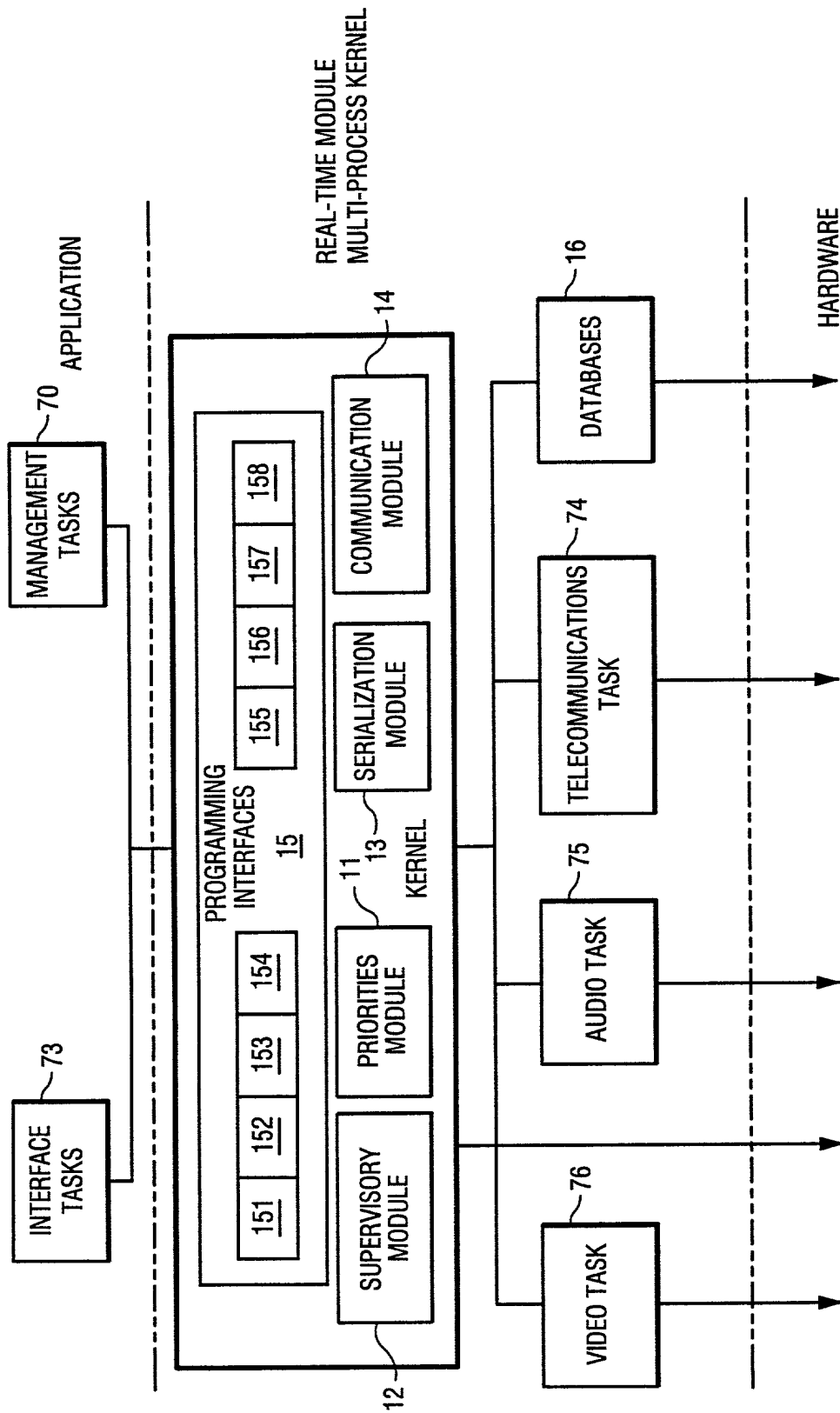


Fig. 3

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graph TD
    START([START]) --> 761{VIDEO TASK ACTIVE?}
    761 -- YES --> 131[FILL QUEUE]
    761 -- NO --> 751{AUDIO TASK ACTIVE?}
    751 -- YES --> 131
    751 -- NO --> 741{COMMUNICATIONS TASK ACTIVE?}
    741 -- YES --> 742[READING OR WRITING]
    742 -- YES --> 131
    742 -- NO --> 743{TRANSMISSION OR RECEPTION?}
    743 -- RX --> 746{KERNEL BUFFER FREE FOR ACCESS?}
    746 -- YES --> 747[RECEPTION OF DATA]
    747 --> 748{ERROR?}
    748 -- YES --> 740[REJECTION]
    748 -- NO --> 749[ACCEPTANCE]
    749 --> 12
    746 -- NO --> 731_701[PROCESS INTERFACE & MANAGEMENT TASKS]
    743 -- TX --> 744[SEND DATA]
    744 --> 132[EXECUTE STORAGE REQUEST]
    132 --> 12
    731_701 --> 12
    12 --> START

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Fig. 4

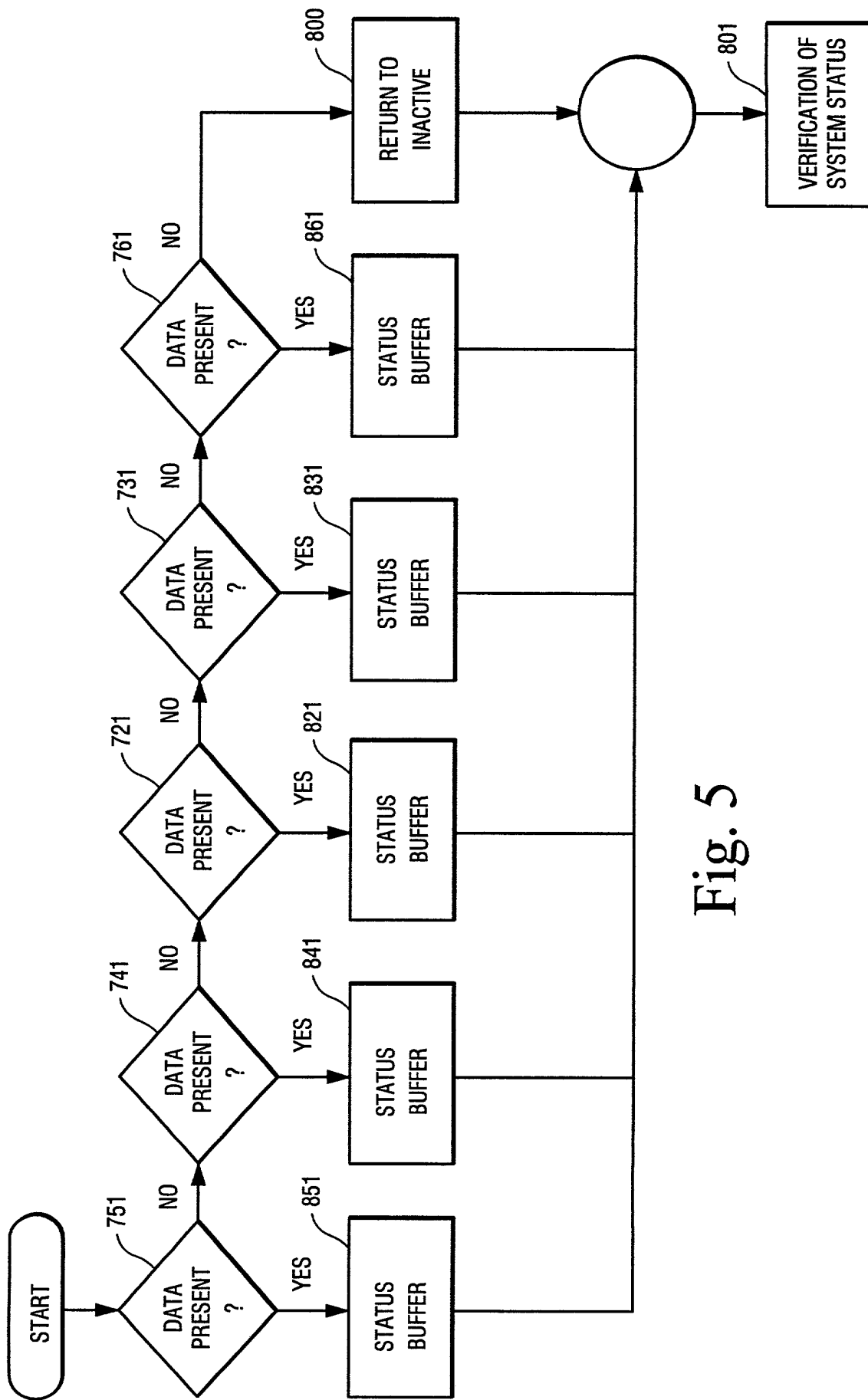
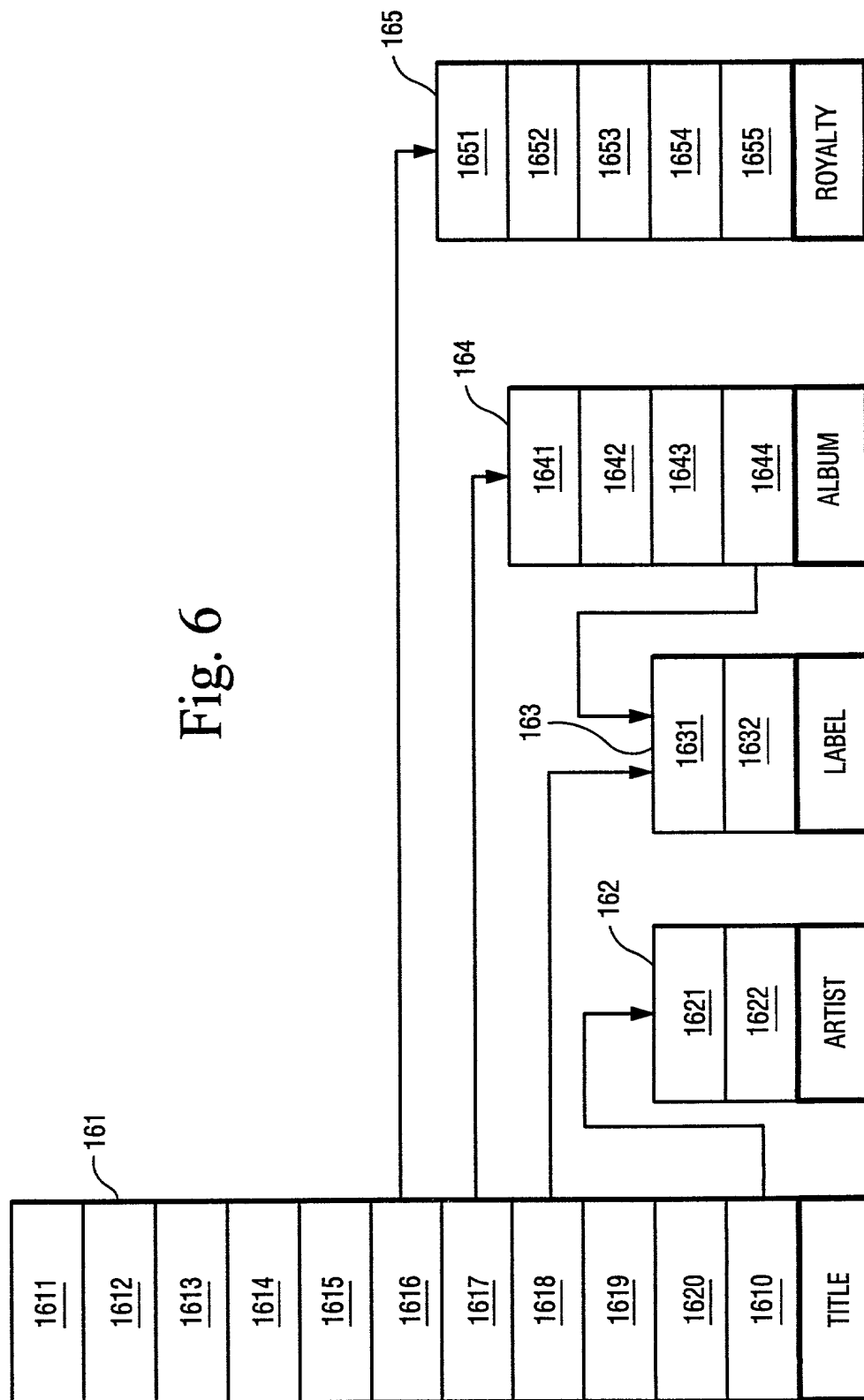


Fig. 5



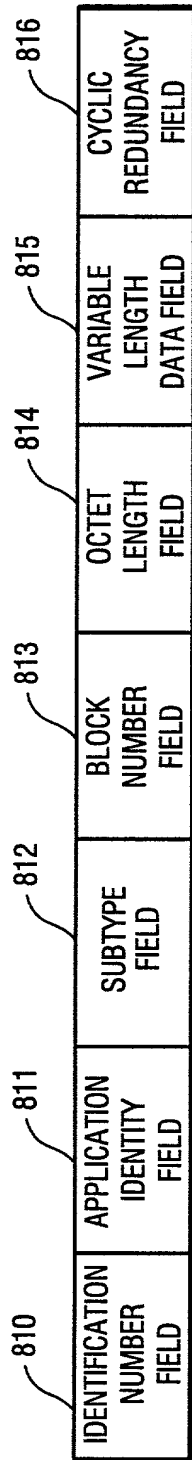


Fig. 7

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graph TD
    820([START]) --> 821{START SIGNAL}
    821 -- TRUE --> 801[VERIFY SYSTEM STATUS]
    801 --> 822{NO ACTIVITY ?}
    822 -- TRUE --> 823[INITIATE DISPLAY]
    823 --> 824[BACKUP CURRENT VERSION]
    824 --> 825[MODIFY STARTUP FILE]
    825 --> 826[APPLY SOFTWARE]
    826 --> 827[RESTART SYSTEM]
    822 --> 827
    827 --> 801
    801 --> 828{STATUS VALID ?}
    828 -- YES --> 829[UPDATE STARTUP FILES]
    829 --> 820
    828 -- NO --> 830[REINITIALIZE SYSTEM]
    830 --> 820
    821 --> 820

```

Fig. 8

Fig. 8